ELSEVIER J. Non-Newtonian Fluid Mech., 56 (1995) 369–370

Journal of Non-Newtonian Fluid Mechanics

Contents of Vol. 56

Vol. 56, No. 1

Opposing-jet viscometry of fluids with viscosity approaching that of water
C.G. Hermansky (Wilmington, DE, USA) and D.V. Boger (Parkville, Vic., Australia) 1

A finite volume approach for calculation of viscoelastic flow through an abrupt axisymmetric contraction
G.P. Sasmal (St. Louis, MO, USA) 15

Prediction of suspension viscoelasticity through particle motion modeling
M. Toivakka and D. Eklund (Turku, Finland) and D.W. Bousfield (Orono, ME, USA) 49

Simulation of transient viscoelastic flow with second order time integration
H.K. Rasmussen and O. Hassager (Lyngby, Denmark) 65

Numerical simulations of the flow of liquid crystalline polymers between parallel plates containing a cylinder
N. Mori, Y. Tsuji, K. Nakamura and C. Yoshikawa (Osaka, Japan) 85

Calendar 99

Vol. 56, No. 2

Weakly nonlinear behavior of periodic disturbances in two-layer plane channel flow of upper-convected Maxwell liquids
Y.Y. Renardy (Blacksburg, VA, USA) 101

Experimental centreline planar extension of polyethylene melt flowing into a slit die
R. Ahmed and M.R. Mackley (Cambridge, UK) 127

Linear stability analysis of viscoelastic Poiseuille flow using an Arnoldi-based orthogonalization algorithm
R. Sureshkumar and A.N. Beris (Newark, DE, USA) 151

Entry flow of fiber suspensions in a straight channel
L. Tang and M.C. Altan (Norman, OK, USA) 183

Errata 217

Calendar 219

Vol. 56, No. 3

Review

A review of the slip (wall depletion) of polymer solutions, emulsions and particle suspensions in viscometers: its cause, character, and cure
H.A. Barnes (Port Sunlight, UK) 221

A new hydrodynamic lubrication theory for bilinear rheological fluids
C.W. Wu and H.X. Sun (Dalian, China) 253

Mechanism of shear thickening investigated by a network model
K.H. Ahn and K. Osaki (Kyoto, Japan) 267

A new thermoviscous theory for fluids
A.E. Green (Oxford, UK) and P.M. Naghdi (Berkeley, CA, USA) 289

Nonequilibrium Brownian dynamics simulations of Hookean and FENE dumbbells with internal viscosity
C.C. Hua and J.D. Schieber (Houston, TX, USA) 307

Effect of polymer on flow in journal bearings
A. Berker (Chester, UK), M.G. Bouldin, S.J. Kleis and W.E. VanArsdale (Houston, TX, USA) 333

Short communication

On purely elastic instabilities in eccentric cylinder flows
I.M. Dris and E.S.G. Shaqfeh (Stanford, CA, USA) 349

Corrigenda 361

Book review 363

Calendar 365

Subject Index of Vol. 56 367

Author Index of Vol. 56 368

Contents of Vol. 56 369